

**CATALYST FOR TRIMERIZING ETHYLENE AND TRIMERIZATION OF ETHYLENE
IN PRESENCE OF THE SAME**

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Abstract of JP11092407

PROBLEM TO BE SOLVED: To obtain the subject catalyst for efficiently and highly selectively producing 1-hexene useful as a raw material comonomer for linear low density polyethylene from ethylene by including a chromium compound, an alkyl metal compound and a specific sulfur compound.

SOLUTION: This catalyst comprises a chromium compound of the formula: CrAm [(m) is an integer of 1-6; A is carbon monoxide or the like), an alkyl compound of the formula: R_pMX_q [$0 < (p) \leq 3$, $0 \leq (q) < 3$, $(p) + (q)$ is 1 to 3; M is lithium or the like; R is a 1-10C alkyl; X is H or the like), and a sulfur compound of the formula: $\text{R} < 1 > -(\text{Y})_h - [\text{R} < 2 > -(\text{Y})]_k - \text{R} < 3 >$ [(h), (i) are each an integer of 1-8; (k) is an integer of 0-10; $\text{R} < 1 >$, $\text{R} < 3 >$ are each H or the like; $\text{R} < 2 >$ is a 1-8C alkylene; Y is a group expressed by the formula] or the formula: $\text{R} < 4 > -\text{S}-\text{M}$ ($\text{R} < 4 >$ is a 1-20C hydrocarbon; M is a 2, 11, 12, 13 or 14 group metal element in the periodic table).

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